

10324-57

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 12 2009

Ms. Elizabeth Tannehill
Mason Chemical Company
721 W. Algonquin Road
Arlington Heights, IL 60005

Subject: Maquat 42
EPA Registration No.: 10324-57
Amendment Date: August 1, 2008
EPA Receipt Date: August 22, 2008

Dear Ms. Tannehill,

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

- Addition of public health organisms
- Addition of directions for use and marketing claims
- Review of Chemistry Data
- Review of Toxicity Data

Acceptable Data

Efficacy

Data Requirement	Means of Support	Status
<i>Corynebacterium ammoniagenes</i>	Submitted study, MRID 475215-08	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Salmonella enterica</i>	Submitted study, MRID 475215-20	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Staphylococcus aureus</i>	Submitted study, MRID 475215-21	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Avian Influenza A (H3N2) virus</i>	Submitted study, MRID 475215-07	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Herpes simplex virus type 1</i>	Submitted study, MRID 475215-12	Acceptable, 500 ppm active in 5% soil for 10 minutes

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<i>Herpes simplex virus type 2</i>	Submitted study, MRID 475215-13	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Vaccinia virus</i>	Submitted study, MRID 475215-22	Acceptable, 500 ppm active in 5% soil for 10 minutes
<i>Human Immunodeficiency virus type 1</i>	Submitted study, MRID 475215-14	Acceptable, 750 ppm active in 5% soil for 2 minutes

Please see the attached DER for additional details regarding the review of the submitted data.

Acute Toxicity

Data Requirement	Means of Support	Status/Tox Category
Acute Oral Toxicity	Submitted study, MRID 446291-01	Acceptable/III
Acute Dermal Toxicity	None	Waived/II
Acute Inhalation Toxicity	None	Data Gap
Primary Eye Irritation	Submitted study, MRID 446291-03	Acceptable/I
Primary Skin Irritation	Submitted study, MRID 446291-02	Acceptable/III
Dermal Sensitization	Submitted study, MRID 475215-02	Acceptable/Nonsensitizer

Chemistry Data

The following Product Chemistry studies have been submitted: 475215-03, 475215-04, 475212-05 and 475351-02. All studies were reviewed and found to be acceptable in support of this formulation. Please see the attached DER for additional details.

Conditions

Revise the label as follows:

- 1) Based on the data submitted to support this product which places it in Tox Category I for Primary Eye Irritation, as well as the use sites on this label, this product meets the Agency standard for Child Resistant Packaging. Submit the Certification for Child Resistant Packaging Within 30 days of the date of this letter.
- 2) As per the submitted toxicity data, revise the precautionary statements to include the appropriate language for acute dermal toxicity. Revise to include: "May be fatal if absorbed through the skin. Harmful if swallowed or inhaled." As per the Label Review Manual revise to include: "Wash thoroughly with soap and water... drinking, using tobacco or using the toilet."

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3) The First Aid statements must be ordered from most toxic route of exposure to least toxic route of exposure. Place the "If In Eyes" statement first, followed by "If On Skin or Clothing," "If Swallowed," and "If Inhaled."

4) Delete the statement in the right column of page three as this product is not approved for use on food contact surfaces. Delete: "Dishes, glassware, silverware...fruit and eggs, Tupperware."

5) Revise the statement in the right column of page three which begins: "Kitchen equipment such as..." as this product is not approved for use on food contact surfaces. Revise to begin: "Exterior surfaces of kitchen equipment such as..."

6) Revise the statement in the right column of page three which begins: "Countertops (counters), Slurppy..." as this product is not approved for use on food contact surfaces. Revise to read exactly as follows: "Countertops (counters), stovetops (stoves), sinks, (bathroom, kitchen), tub surfaces, and exterior surfaces of Slurppy machines, appliances, refrigerators, and ice machines."

7) Revise the statement in the right column of page three which begins: "Glass, metal, stainless steel..." to identify only hard non-porous surfaces. Revise to read as follows: "Glass, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble..."

8) Delete the reference to treatment of artificial turf from page four as well as the directions associated with this use on page fifteen. The Agency is not accepting claims for disinfection of artificial turf at this time. It is believed that a more thorough evaluation of the post application exposure, environmental concerns, and efficacy considerations must be addressed prior to accepting this claim. Any Registrants with product labels currently in the market place with such a claim will be notified and asked to remove the claim pending a complete review associated with this use.

9) Revise the claim on page four, right column to read as follows: "Kills Avian Influenza virus on pre-cleaned environmental surfaces." (Bold text for emphasis only)

10) Delete the claim for "Hospital Pharmacy Compounding" on page five, left column in the section beginning "This product is a disinfectant and non-food contact sanitizer for Hospital Pharmacy Compounding..." This section is not descriptive enough to prohibit the use of this product on surfaces that contact drugs. If you would like to revise this section in the future to include this claim, you must include language that assures that surfaces which contact drugs are not being treated with the disinfectant/non-food contact sanitizer. The Agency does not have adequate information to determine if treatment of the listed surfaces would result in this product being in direct contact with a drug intended for human consumption. In addition, please revise to read as follows: "...BioSafety Cabinet work surfaces including countertops, sinks, plumbing fixture surfaces and exterior surfaces of incubators, refrigerators and Centrifuge surfaces..."

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11) Revise the claim on page five, right column which begins: "For use on hard, non-porous surfaces in animal care..." to include: "glazed ceramic tile."

12) The statement on page six, left column which begins: "At 3 ounces per gallon (or equivalent use dilution)...against Hanta virus..." belongs in the directions for use section, not the marketing section of the label. Place this statement in the Directions for Use section in close proximity to the additional directions for use to treat areas infested with Hantavirus.

13) Correct the heading on the General Disinfection chart on page seven. Delete the terms "Fungicidal/Virucidal" as this product includes directions for use as a fungicide (Trichophyton at 3 oz. per gallon) and as a virucide (Hantavirus at 3 oz. per gallon) at rates in addition to rate listed in this chart.

14) Add the following text to bring the Surgical Instrument Presoak section on page eight into agreement with other Mason labels. Add: "Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled."

15) Delete the "Note" under the "Surgical Instrument Presoak" directions on page eight. Plastic surgical instruments cannot remain immersed until ready to use. Plastic and metal instruments must be sterilized before they can be reused during surgery. This product is not an approved liquid chemical sterilant.

16) Revise the Directions for Fogging For Use in Dairies, Beverage and Food Processing Plants in the right column of page eight. Once the surfaces have been treated with a food contact sanitizer, these food contact surfaces do not need to be rinsed. Delete the statement "All food contact surfaces must be thoroughly rinsed prior to reuse with potable water."

17) Revise the list of organisms for Animal Premises on page nine to indicate Rabies **Virus**.

18) Since this product includes directions for use as a disinfectant at several rates, revise the directions for Effectiveness Against Canine Parvovirus (CPV), Minute Virus of Mice..." on page nine by deleting the reference to "the disinfecting solution" and replacing with: "9 ounces per gallon of water".

19) Revise the directions for use on page nine for Rendering Plant/Dressing Plant Disinfection Directions to include the following as the third statement: "Pre-clean all surfaces before using this product."

20) There are several sections in the Animal Premise directions which refer to the disinfection and virucidal solution and include parenthesis around the actual use rate. Since this product is effective as a virucide at several different rates, including the appropriate rate for animal premise is not optional as implied by the parenthesis. Delete the parentheses surrounding the 3 ounce per gallon rate in the following sections beginning on page ten: Terrarium and Small Animal Cage..., Reptile Tank Cleaning..., Veal, Calving Hog, Cattle and Horse Operations, Farm

Premise Disinfection Directions, Disinfection Directions for Chick Vans... and

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Disinfectant/Virucidal Direction to Treat Hard Non-Porous Food Contact Surfaces in Egg Receiving..."

21) Correct the Meat Packing Plants directions on page eleven to read: "...livestock vehicles and holding pens, receiving areas..."

22) Revise the Meat Packing Plant directions on page eleven. State: "...For pre-cleaning saturate all surfaces..." deleting "application". Then add an additional step to indicate that surfaces must be treated again at 3 ounces per gallon with a 10 minute contact time in order to disinfect.

23) Revise the Restroom/Bathroom directions, third section: "For use as a non-acid bowl cleaner/disinfectant..." by revising step #4 to state: "Swab again then allow entire surface to remain wet for ten (10) minutes. It is not appropriate to state "repeat" which implies that twice as much product may be added to the bowl.

24) Revise the "Toilet Bowls/Urinals" directions on page twelve, left column to indicate: "...Pour 3 ounces of a 2 ounces per gallon solution into the bowl..."

25) Revise the first and second sets of "To Disinfect Toilet Bowls" directions on page twelve, left column by placing the statement "For heavily soiled areas a pre-cleaning step is required" or "A preliminary cleaning step is required for the removal of heavy soil prior to disinfection" as the first statement in each section.

26) Make the following revisions to the "For Deodorizing Septic Storage Tanks" section on page thirteen. Correct mobile homes to read "recreational vehicles" as mobile homes are not moving vehicles nor do they typically have septic storage tanks. In addition, delete the term "Disinfectant" from this section.

27) Since the Air Freshener/Automotive section on page thirteen refers only to application of the product on auto surfaces, delete the references to storage areas, basements, closets, bathrooms, and A/C filters. In addition, change cooking odors to food odor as cooking is typically not done in an automobile.

28) Place the statement "Not for use in heat or atomizing type humidifiers" in both sets of humidifier directions on page fourteen.

29) Clarify the Water and Smoke Restoration directions on page fourteen, left column by correcting "Saturate affected materials with enough product..." to read: "Saturate affected materials with 3 ounces per gallon solution to remain..." Make the same correction to the "Smoke Damage Restoration" section on the same page in the right column.

30) Correct the directions for Alternate Containers on page fifteen to indicate that for General Disinfection: "...Pour the contents of (2 ounce) packet into..."

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General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

Enclosure: Stamped Label, DER D35682, D356391, D356388
7510P:T.Lantz:1/9/09:10324-57Carp

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MASON CHEMICAL COMPANY

"The Quaternary Specialists"

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

E.P.A. Reg. No. 10324-57

E.P.A. Est. No. 10324-IL-1

MAQUAT® 42

Net Contents:

Batch No:

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wear protective eyewear (goggles, face shield or safety glasses), rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. (*1)

(If container is 5 gallons or larger the following statement must appear on the label.)

ENVIRONMENTAL HAZARD

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(If container is less than 5 gallons the following statement must appear on the label.)

ENVIRONMENTAL HAZARD

This product is toxic to fish.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents.
Do not use or store near heat or open flame.

(If the container is greater than one gallon use the following storage and disposal statements.)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage: Open dumping is prohibited. Store only in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container disposal (Larger than 1 gal.): Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less uses the following storage and disposal statements.)

STORAGE AND DISPOSAL

Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of sidewalls. Do not reuse empty container. Wrap and discard in trash (or recycle).

PACKET DISPOSAL: Do not reuse. Discard empty container and put in trash.

PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

DETERGENT/DISINFECTANT

Cleaner - Disinfectant - Detergent - Fungicide (against Pathogenic fungi) - Deodorizer - Virucide* - Mildewstat (on hard inanimate surfaces) For Veterinary Clinics, Pet Shops, Kennels, Animal Care Facilities, Tack Shops, Animal Life Science Laboratories, Breeding And Grooming Establishments, Food Processing Facilities, Hospitals, Nursing Homes, Whirlpool, Home, Hotels & Motels, Waterbed Conditioner, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey Farms, Restaurant, Food Handling Areas, Federally Inspected Meat and Poultry Processing Bar and Institutional Kitchen Use.

(*1 & *2)
Non-Acid Bathroom Cleaner (*2)
Athletic Surface Disinfectant. (*2)

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JAN 12 2009

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%) Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10324-57. 1.60%
dimethyl benzyl ammonium chloride
Alkyl (C₁₂ 68%, C₁₄ 32%) dimethyl ethylbenzyl ammonium chloride 1.60%

INERT INGREDIENTS: 96.80%
TOTAL 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

See left (back) (side) (right) panel (of label) (below) for additional precautionary statements

First Aid

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)

TRANSPORTATION INFORMATION

DOT Hazard Class: 8 Corrosive

DOT Proper Shipping Name: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PG11

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(Note to reviewer: The Table of Contents will not be on any label. This is for our customer's reference only. The page numbers will change as the label changes.)

Table of Contents

Description	Page No.
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ORGANISM LIST

(Note: For reference use only. This is a list of all organisms covered by this label. Please see appropriate Directions for Use for proper use dilution.)

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions): This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces:

Corynebacterium ammoniagenes (ATCC 6872) (*1)
Bordetella bronchiseptica (ATCC 10580) (*1)
Enterobacteriacia w/beta lactamase resistance (ATCC BAA-72) (*1)
Enterobacter aerogenes (ATCC 13048) (*1)
Enterococcus faecalis (ATCC 29212) (*1)
Enterococcus faecalis Vancomycin Resistant (ATCC 51299) (*1)
Escherichia coli (ATCC 11229) (*1)
Klebsiella pneumoniae (ATCC 4352) (*1)
Listeria monocytogenes (ATCC 19117) (*1)
Pseudomonas aeruginosa (ATCC 15442) (*3)
Salmonella enterica (ATCC 10708) (*1)
Salmonella schottmuelleri (ATCC 8759) (*1)
Salmonella typhi (ATCC 6539) (*1)
Shigella dysenteriae (ATCC 11835) (*1)
Serratia marcescens (ATCC 14756) (*1)
Staphylococcus aureus (ATCC 6538) (*1)
Staphylococcus aureus-MRSA (ATCC 33592) (*1)
Staphylococcus aureus-VISA (HIP 5836) (*1)
Streptococcus salivarius (ATCC 7073) (*1)

DISINFECTION IN NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage and Food Processing Plants and Other Non-Medical Facilities): This product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces:

Corynebacterium ammoniagenes (ATCC 6872) (*corrected name) (*3)
Enterobacter aerogenes (ATCC 13048) (*3)
Enterococcus faecalis (ATCC 29212) (*corrected name) (*3)
Escherichia coli (ATCC 11229) (*3)
Klebsiella pneumoniae (ATCC 4352) (*3)
Salmonella enterica (ATCC 10708) (*corrected name) (*3)
Salmonella schottmuelleri (ATCC 8759) (*3)
Shigella dysenteriae (ATCC 11835) (*3)

Staphylococcus aureus (ATCC 6538) (*3)

VIRUCIDAL PERFORMANCE: This product was evaluated and found to be effective in the presence of 5% blood serum against the following viruses on hard, non-porous surfaces:

Avian Influenza A (H3N2) (*new) (*3)
Human Coronavirus (*1)
Hantavirus (*1)
Herpes Simplex Type 1 (*3)
Herpes simplex virus Type 2 (*new) (*3)
HIV-1 (AIDS Virus) (*3)
Influenza A/Asian virus
Influenza A2/Japan virus

ANIMAL PREMISE VIRUCIDAL PERFORMANCE: This product was evaluated and found to be effective in the presence of 5% blood serum against the following viruses on hard, non-porous surfaces:

Avian Influenza A (H3N2) (*new) (*3)
Canine Adenovirus (*1)
Canine Coronavirus (*1)
Canine Distemper Virus (*new) (*3)
Canine Parainfluenza Virus (*1)
Canine Parvovirus (CPV) (*1)
Feline Calicivirus (*1)
Feline Infectious Peritonitis (*1)
Feline leukemia (*1)
Feline Panleukopenia (*1)
Feline Picornavirus (*1)
Feline Rhinotracheitis (*1)
Infectious Canine Hepatitis Virus (*1)
Minute virus of Mice (Parvovirus) (*1)
Murine Parainfluenza virus type 1 (*1)
Newcastle disease virus (*1)
Porcine Parvovirus (*1)
Pseudorabies virus (*1)
Rabies virus (*1)
Vaccinia virus (*3)

FUNGICIDAL PERFORMANCE (*1): This product was evaluated in the presence of 5% serum and found to be effective against the following on hard, non-porous surfaces:

Aspergillus niger (ATCC 6275) (*3)
Trichophyton mentagrophytes (ATCC 9533) (*1)

MARKETING CLAIMS

Maquat® 42 for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, physician offices, operating rooms, radiology rooms, isolation wards, and medical research facilities, hospices. (*2)
- Patient care rooms & facilities, recovery rooms, anesthesia, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, whirlpool surfaces, footbath surfaces, respiratory therapy, surgi-centers, labs, blood collection rooms, central supply, housekeeping & janitorial room, ophthalmic/optometric facilities. (*2)

- EMS & fire facilities, emergency vehicles, ambulances, ambulance equipment/surfaces, carts, gurneys, stretchers, police cars, fire trucks. (*2)
- Day care centers and nurseries, sick rooms, elder care centers, kindergartens, and preschools. (*2)
- Acute care institutions, alternate care institutions, home healthcare institutions. (*2)
- Life care retirement communities. (*2)
- Restaurants, restaurants and bars, bars, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas. (*2)
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers. (*2)
- Computer manufacturing sites, toy factories. (*2)
- Food establishments, coffee shops, donut shops, bagel stores, pizza stores, liquor stores. (*2)
- Crime scenes and funeral homes, mortuaries, burial vaults, mausoleums, autopsy rooms, cadaver processing areas. (*2)
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations. (*2)
- Institutional facilities, laboratories, factories, business and office buildings and restrooms. (*2)
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms. (*2)
- Hotel, motels, dormitories. (*2)
- Kitchens, bathrooms and other household areas. (*2)
- Homes (households), condos, apartments, vacation cottages, summer homes. (*2)
- Institutions, schools and colleges, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums. (*2)
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses. (*2)
- Health clubs, spas, tanning spas, tanning beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors. (*2)
- Museums, art galleries, post offices, performance/theater centers, banks, libraries, movie houses, bowling alleys. (*2)
- Recycling centers. (*2)
- Humidifier water tanks. (*2)
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes. (*2)
- Dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, rendering plants, rendering plants, canneries. (*2)

- Veterinary clinics, animal life science laboratories, animal research centers, animal quarantine areas, animal breeding facilities, animal grooming areas, animal holding areas, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities. (*2)
- Farmhouses, barns, sheds, tool sheds, cattle barns, swine barns, sheep barns, horse barns, brooder houses. (*2)
- Household and automotive garages, boats, ships, barges, watercraft, campers, RV's, trailers, mobile homes, cars, automobiles, automobile interiors, trucks, delivery trucks, boxcars, tankers, tank trucks, buses, trains, taxis and airplanes, helicopters. (*2)
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation. (*2)
- Commercial florist and flower shops. (*2)
- Basements, cellars, bedrooms, attics, living rooms, porches. (*2)

This product can be used on washable hard, non-porous surfaces such as:

- Food preparation and storage areas. (*2)
- ~~Dishes, glassware, silverware, plastic and other non-porous cutting boards, plastic and other non-porous chopping blocks, coolers, ice chests, refrigerator bins used for meat, vegetables, fruit and eggs, Tupperware®~~ (*2)
- Kitchen equipment such as food processors, blenders, cutlery, trash compactors and other utensils. (*2)
- Countertops (counters), Slurpy® machines, stovetops (stoves), sinks (bathroom, kitchen), tub surfaces, appliances, refrigerators, ice machines. (*2)
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, cervical collars, neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops.
- Ultrasonic baths, whirlpools, whirlpool bathtubs. (*2)
- Highchairs, baby cribs, diaper changing stations, infant bassinets/cribs/warmers/incubators/care equipment, folding tables, laundry pails. (*2)
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, porcelain tile and restroom fixtures. (*2)
- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic (such as polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl. (*2)
- Tables, chairs, desks, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans, cuspidors and spittoons. (*2)
- Enameled surfaces, painted woodwork (finished), Formica®, vinyl and plastic upholstery. (*2)
- Foundations, steps, plumbing fixtures, finished baseboards and windowsills. (*2)
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of: air conditioning, refrigeration equipment and heat pumps. (*2)

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- Large inflatable non-porous plastic and rubber structures: animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment. (*2)
- Hard, non-porous surfaces of picnic tables and outdoor furniture or Non-wooden Picnic tables and outdoor furniture except cushions and wood frames. (Note: Only one statement will be used on label.) (*2)
- Telephones and telephone booths. (*2)
- External lenses vision correction including eyeglasses, (not for use on contact lenses), protective eyewear, goggles, light lens covers, optical instruments/implements. (*2)
- Hair clippers, cutting implements, plastic rollers, washable nail files. (*2)
- Hard hats, headphones. (*2)
- Kennels, kennel runs, cages, kennel/cage floors, conductive flooring. (*2)
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers. (*2)
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables. (*2)
- Crypton Barrier fabric (*2)
- Artificial turf surfaces (*2)

This product contains no phosphorous. (*2)

This product is a phosphate free cleaner disinfectant designed to provide effective cleaning, deodorizing and disinfection for general household use (applications) where housekeeping is of prime importance in controlling the hazard of cross contamination. (*2)

This product delivers non-acid disinfection performance in an economical concentrate.

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking. (*2)

This product is a complete, chemically balanced disinfectant that provides clear use solutions. (*2)

This product can be applied through foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems. (*2)

Use this product on the multi-touch surfaces responsible for cross-contamination. (*2)

When used as directed, it (this product) is formulated to disinfect inanimate hard surfaces such as walls, floors, sink tops, toilet bowls, tables, chairs, telephones and bed frames. For larger areas such as patient care facilities and restrooms, the product is designed to provide both general cleaning and disinfecting.

This product is for use as a disinfectant on hard, non-porous surfaces (at 500 ppm active). A potable water rinse is required after application on food contact surfaces. (*2)

One-step cleaner. (*2)

Cleans and shines. (*2)

Antibacterial. (*2)

This product is a concentrated disinfectant that is effective against a broad spectrum of bacteria and is virucidal* when used as directed. (*1)

Cross contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces, not only in hospitals, but also in schools, institutions and industry. (*2)

This product is an effective disinfectant in the presence of 5% serum contamination. (*2)

This product is for use in kitchens, bathrooms, and other household areas. (*2)

This product is a multi-surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non-food contact glass surfaces. (*2)

This product can be used in work areas such as tool rooms and garages for odor control and light duty cleaning. (*2)

Cleans everyday kitchen messes. (*2)

Cleans kitchen surfaces and food preparation areas. (*2)

Great for use (on) (in) the (kitchen), (bathroom), (floors) and other household areas. Removes (eliminates) odors. Deodorizes. Will not harm most surfaces. (*2)

Will not harm most surfaces. For a cleaner, fresher household. Removes stains. Removes dirt. Non-staining. Clear formula. (*2)

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grime. (*2)

Disinfects kitchen surfaces (bathroom surfaces and floors). Kills germs. Kills bacteria. (*2)

Kills common kitchen (bathroom) germs (and viruses*). (*2)

This detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, and other institutions where housekeeping is of prime importance. (*2)

This product is a concentrated Hospital Use disinfectant that is effective against a broad spectrum of bacteria, is virucidal*, (and) fungicidal, and eliminates odor causing bacteria when used as directed. (*2)

For larger areas, such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection. (*2)

Will not cause swelling of transducer membrane or harm compressor plates. (*2)

This product is a broad-spectrum disinfectant formulated for use in Ultrasonic Baths (Ultrasonic cleaning units). (*2)

Kill Avian Influenza on pre-cleaned environmental surfaces. (*2)

This product is a versatile cleaner and broad-spectrum disinfectant formulated for use on bath and therapy equipment (Whirlpools). (*2)

This product is a one-step disinfectant that is effective against a broad spectrum of bacteria, is virucidal* (including HIV-1) and inhibits the growth of mold and mildew and their odors when used as directed. (*2)

Hospital Use Disinfectant. Institutional Disinfectant. (*2)

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants. (*2)

Cross contamination is of major housekeeping concern. This product has been formulated to aid in the reduction of cross-contamination on treated surfaces in hospitals. (*2)

This product is a phosphate-free cleaner/disinfectant designed to provide effective cleaning, deodorizing and disinfection for hospital applications where housekeeping is of prime importance in controlling the hazard of cross contamination. (*2)

Efficacy tests have demonstrated that this product is an effective bactericide, fungicide, and virucide* in the presence of organic soil (5% blood serum).

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human (and Canine) Coronavirus. (*2)

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This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Canine Coronavirus. (*2)

This product is a disinfectant for ~~Hospital Pharmacy Compounding~~, Cleanroom, and Laboratory areas to disinfect washable, hard, non-food contact, non-porous surfaces such as: Laminar-airflow equipment and BioSafety Cabinet work surfaces and exterior surfaces including countertops, sinks, plumbing fixture surfaces, Incubators, Refrigerators and Centrifuge surfaces of metal, stainless steel, glass, plastic (such as polystyrene or polypropylene), Formica®, and vinyl. (*2)

Use this product to clean and disinfect non-porous ambulance equipment and surfaces by rinsing all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.) (*2)

This product maximizes (improves) labor results by effectively controlling odors. (*2)

When used as directed, this product will deodorize surfaces where bacterial growth can cause malodors. (*1)

When used as directed, this product will deodorize surfaces in restroom and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors. (*2)

In addition, this product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls, and any other areas which are prone to odors caused by microorganisms.

This product controls (reduces) (eliminates) (neutralizes) (destroys) odors to make your (kitchen) (bathroom) sanitary. (*2)

This product neutralizes musty odors and tough odors from smoke, pet accidents, and spills on contact. (*2)

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew. (*2)

This product is effective against household germs and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors. (*2)

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. (This statement is not for use in California.)

This product is for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors. (*2)

This product is effective at controlling mold and mildew odor on shower curtains. (*2)

This product provides long lasting freshness against tough (pet) odors such as odors from litter boxes and pet accidents. (*2)

This product cleans, shines, deodorizes and disinfects all hard, non-porous surfaces listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling. (*2)

Eliminates odors caused by bacteria (and) (mildew) (and) (non-fresh foods). Kills odor causing bacteria in the kitchen (bathroom). (*2)

This product is for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls. (*2)

This product will not leave a grit or soap scum. (*2)

This product is a no-rinse disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step. (*2)

Kills Athlete's Foot fungus on bathroom surfaces. (*2)

This product is a versatile Disinfectant & Virucide for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications. (*2)

This product cleans by removing dirt, grime, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It (also) eliminates odors leaving surfaces smelling clean and fresh. (*2)

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture (plastic terrarium ornaments, driftwood, heat caves and water dishes. (Use on rocks and driftwood not allowed in California) (*2)

This product has been designed for veterinarians, animal groomers, hair stylists, barbers and beauticians, for use in disinfecting and maintaining clippers. It acts as a virucide and bactericide while also cleaning. Regular use will help to maintain blades that operate with reduced friction and with smoother clipping action. Will help to prolong equipment life. This product is designed for use in pet salons, animal hospitals, barber and beauty shops. When used as directed it will disinfect metal clipper blades as well as many other hard, non-porous surfaces. (*2)

This product cleans rodent soiled areas. (*2)

This product is for Poultry Premise Sanitation (Hatcheries) (*2)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

This product is for Swine Premise Sanitation: (*2)

Farrowing Barns and Areas	Dressing Plants	Blocks
Waterers and Feeders	Loading Equipment	Creep Area
Hauling Equipment	Nursery	Chutes

For use on hard, non-porous surfaces in animal care facilities such as floors, walls, cabinets, chairs, tables, cages, feeding and watering equipment, furniture, operating tables, metal surfaces, stainless steel, glazed porcelain, painted or sealed woodwork, ceramic tile and plastic: (*1)

Floor cleaner. (*2)

This product is an effective antimicrobial cleaner designed for use by wholesale and retail florists, shippers and green houses. (*2)

When used as directed, this product will disinfect hard, non-porous surfaces such as flower buckets, floors and walls of coolers, design and packing benches, and countertops. (*2)

This product can be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors can develop. (*2)

Use this product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors can develop. (*2)

This product can be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, greenhouse packing areas and other commercial floriculture

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places for efficient cleaning and antimicrobial action against certain bacteria which cause: (Not for use in CA) (*2)

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips. (*2)
2. Production of ethylene gas, which can injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria. (*2)

Use this product to disinfect non-porous salon/barber tools and instruments such as combs, brushes, scissors, clippers, plastic rollers, trimmers, razors, blades, tweezers and manicure/pedicure instruments, and footbath surfaces. (*2)

Use this product to clean and disinfect non-porous surfaces of personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. (Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.) (*2)

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat. (*2)

Controls the growth of odor-causing and slime-forming bacteria used in waterbed uses. Controls odors caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals. (*2)

Escherichia coli (E. coli) and Staphylococcus aureus (Staph) are common bacteria found where food is prepared and stored. This product kills these bacteria and helps prevent the spread of food borne contamination on treated kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces. (*2)

When used as directed, it (this product) is formulated to disinfect inanimate hard surfaces such as walls, floors, sink tops, toilet bowls, tables, chairs, telephones and bed frames. For larger areas restrooms, the product is designed to provide both general cleaning and disinfecting.

This product is a phosphate free cleaner disinfectant designed to provide effective cleaning, deodorizing and disinfection for food processing plants applications where housekeeping is of prime importance in controlling the hazard of cross contamination.

This detergent/disinfectant has been designed specifically for food processing plants, food service establishments and other institutions where housekeeping is of prime importance.

This product is a phosphate-free cleaner/disinfectant designed to provide effective cleaning, deodorizing and disinfection for school and light industrial applications where housekeeping is of prime importance in controlling the hazard of cross contamination.

This detergent/disinfectant has been designed specifically for schools and other institutions where housekeeping is of prime importance.

At 3 ounces per gallon (or equivalent use dilution) in the presence 5% organic load, this product was proven to be effective against Hantavirus with a contact time of 10 minutes.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

PREPARATION OF DISINFECTION/FUNGICIDAL/VIRUCIDAL USE SOLUTION(*2):

To disinfect hard inanimate surfaces (such as walls, floors, table tops), apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Allow to remain wet for 10 minutes, then let surface air dry. Do not breathe spray. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Note: With spray applications cover or remove all food products. For heavily soiled areas, a preliminary cleaning is required. (*2)

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):

Add 3 ounces of this product to one gallon of water (or equivalent use dilution) (750 ppm active quat) OR mix a 3-ounce packet with one gallon of water. Treated surfaces must remain wet for 10 minutes. At this use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

Corynebacterium ammoniagenes (ATCC 6872) (*1)
Bordetella bronchiseptica (ATCC 10580) (*1)
Enterobacteriacia w/beta lactamase resistance (ATCC BAA-72) (*1)
Enterobacter aerogenes (ATCC 13048) (*1)
Enterococcus faecalis (ATCC 29212) (*1)
Enterococcus faecalis Vancomycin Resistant (ATCC 51299) (*1)
Escherichia coli (ATCC 11229) (*1)
Klebsiella pneumoniae (ATCC 4352) (*1)
Listeria monocytogenes (ATCC 19117) (*1)
Pseudomonas aeruginosa (ATCC 15442) (*3)
Salmonella enterica (ATCC 10708) (*1)
Salmonella schottmuelleri (ATCC 8759) (*1)
Salmonella typhi (ATCC 6539) (*1)
Shigella dysenteriae (ATCC 11835) (*1)
Serratia marcescens (ATCC 14756) (*1)
Staphylococcus aureus (ATCC 6538) (*1)
Staphylococcus aureus-MRSA (ATCC 33592) (*1)
Staphylococcus aureus-VISA (HIP 5836) (*1)
Streptococcus salivarius (ATCC 7073) (*1)

DISINFECTION IN NON-MEDICAL FACILITIES (Households, Schools, Restaurants, Food Services, Beverage and Food Processing Plants and Other Non-Medical Facilities):

Add 2 ounces of this product to one gallon of water (500 ppm active quat) (or equivalent use dilution) OR mix a 2-ounce packet with one gallon of water. Treated surfaces must remain wet for 10 minutes. At this use level, this product is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum against:

Corynebacterium ammoniagenes (*corrected name) (*3)
Enterobacter aerogenes (*3)
Enterococcus faecalis (*corrected name) (*3)
Escherichia coli (*3)
Klebsiella pneumoniae (*3)
Salmonella enterica (*corrected name) (*3)
Salmonella schottmuelleri (*3)
Shigella dysenteriae (*3)
Staphylococcus aureus (*3)

VIRUCIDAL* PERFORMANCE: This product, when used on environmental, inanimate hard surfaces at 2 ounces per gallon of water, exhibits effective virucidal* activity against Influenza A2/Asian (representative of the common flu virus), Herpes Simplex

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Type 1, (causative agent of fever blisters and mononucleosis), and Vaccinia virus (representative of the pox virus group).

OR

At 2 ounces per gallon use level (500 ppm active quat), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces: (*2)

Avian Influenza A (H3N2) (*new) (*3)
Herpes Simplex Type1 (*3)
Herpes simplex virus Type 2 (*new) (*3)
Influenza A/Asian

At 3 ounces per one gallon in the presence of 5% blood serum for a 2-minute contact time this product was found to be effective against: (*2)

HIV-1 (AIDS Virus) (*3)

At 3 ounces per one gallon in the presence of 5% blood serum for a 10-minute contact time this product was found to be effective against: (*2)

Herpes Simplex Type1 Herpes simplex virus Type 2
Human Coronavirus (*1) Hantavirus (*1)
Influenza A2/Japan

FUNGICIDAL PERFORMANCE (*1): At 3 ounces per gallon use level or equivalent use dilution (750 ppm active quat), this product was evaluated in the presence of 5% serum with a 10 minute contact time and found to be effective against the following fungi on hard, non-porous surfaces:

Trichophyton mentagrophytes (ATCC 9533) (athlete's foot fungus) (a cause of Ringworm)

MOLD AND MILDEW PERFORMANCE (*1): At 2 ounces per gallon use level or equivalent use dilution (500 ppm active quat), in the presence of 5% serum with a 10-minute contact time, this product will control the growth of the following fungi on hard, non-porous surfaces:

Aspergillus niger (ATCC 6275)

CLEANING AND DISINFECTION: For heavily soiled areas, a precleaning step is required. For one step cleaning and disinfecting, use 2 ounces of this product per gallon of water (or equivalent use dilution) (500 ppm active quat). Apply use solution using a cloth, mop, or pressure sprayer as to thoroughly wet surface(s) to be disinfected/cleaned. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes and then air dry. Prepare a fresh solution after each use. (Alternate statement: Prepare a fresh solution at least daily or when solution becomes visibly dirty or diluted.) (*2)

(OR)

FOR USE AS A ONE-STEP CLEANER/DISINFECTANT: (*2)

1. Pre-clean heavily soiled areas.
2. Apply use solution (2 ounces per gallon) (500 ppm active quat) (or equivalent use dilution) to hard, non-porous environmental surfaces.
3. To disinfect, all surfaces must remain wet for ten (10) minutes.
4. Wipe surfaces or let air dry.

Note: All food contact surfaces such as appliances and kitchen countertops must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A: For use in homes, hospitals, hotels, motels and schools, the directions for hospital disinfection must be followed using a rate of 3 oz. per gallon of water. (OR) For use in animal housing facilities, follow the animal premise directions. (*2)

HOSPITAL/ANIMAL PREMISE DISINFECTION DILUTION CHART

Ounces of Product	Amount of Water
0.75 ounce	1 quart
1.5 ounces	½ gallon
3 ounces	1 gallon
9 ounces	3 gallons
15 ounces	5 gallons
30 ounces	10 gallons

GENERAL DISINFECTION/FUNGICIDAL/AUTHUCIDAL DILUTION CHART

Ounces of Product	Amount of Water
0.5 ounce	1 quart
1 ounce	½ gallon
2 ounces	1 gallon
6 ounces	3 gallons
10 ounces	5 gallons
20 ounces	10 gallons

HOSPITAL/HEALTH CARE

(Note for reviewer: For labels that list medical premises and metal and/or stainless steel surfaces, one of the following statements must be used.) (*2)

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product can be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

(Or)

This product is not for use on Medical device surfaces.

HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS (For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces): To disinfect hard, inanimate surfaces (such as walls, floors, table tops), add 3 oz. detergent/disinfectant (this product) per (to) gallon of water (750 ppm active quat) (or equivalent use dilution) (OR) mix a 3-oz. packet with one gallon of water. Apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow surfaces to remain wet for 10 minutes and then let air dry. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution at least daily or when use dilution becomes diluted or soiled. (*2)

At 3 ounces per 1 gallon in the presence of 5% blood serum and 400 ppm of hardness for a 2-minute contact time this product was found to be effective against HIV-1 (AIDS Virus).

***KILLS HIV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS). (*1)

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SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS

Personal Protection: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks and eye coverings.

Cleaning Procedure: Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant

Disposal of Infectious Materials: Blood and other body fluids (containing HIV-1) must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time: Leave surfaces wet with 3 ounces per gallon of water solution (750 ppm active quat) (or equivalent use dilution) for 2 minutes. This contact time will not control other common type of viruses and bacteria.

SURGICAL INSTRUMENT PRESOAK: Add 3 ounces of this product to gallon of water (or equivalent use dilution) (750 ppm active quat). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure. (*2)

Note: Plastic instruments can remain immersed until ready to use. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments. (*2)

ULTRASONIC BATH DISINFECTANT DIRECTIONS: Use this product to disinfect hard (inanimate) non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour (a) fresh solution of 3 ounces per gallon of water (or equivalent use dilution) (750 ppm active quat) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution at least daily or when solution becomes visible dirty or discolored. (*2)

FOR DISINFECTING HARD, NON-POROUS BATH AND THERAPY EQUIPMENT: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add 3 ounces of this product for each gallon of water (or equivalent use dilution) (750 ppm active quat) in the unit at this point. Briefly start the pump to circulate the solutions. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solutions from the unit and rinse any/all cleaned surfaces with fresh water. The unit is ready for reuse. (*2)

DISINFECTION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS (*2): After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 3 ounces of this product for each gallon of (or equivalent use dilution) (750 ppm active quat) water at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS)(*2): Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply 3 ounces per gallon of water (750

ppm active) (or equivalent use dilution) solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for ten (10) minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

FOOD PROCESSING PREMISES

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from room or carefully protected. A potable water rinse is required following use of this product. (*2)

TO DISINFECT FOOD-PROCESSING AND TOBACCO PREMISES: Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, add 2 ounces of this product per gallon of water (or equivalent use dilution) (500 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes. Then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water. (*1)

TO DISINFECT FOOD SERVICE ESTABLISHMENT FOOD CONTACT SURFACES: For countertops, exterior surfaces of appliances, tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. Add 2 ounces of this product per gallon of water (or equivalent use dilution) (500 ppm active quat). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications use a coarse spray device. Allow surfaces to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. (*1)

FOR USE ON NON-FOOD CONTACT SURFACES AS A GENERAL DISINFECTANT IN THE BREWERY INDUSTRY (*1: Use 2 ounces of this product per gallon of water (or equivalent use dilution) (500 ppm active quat). Follow the Disinfectant directions above.

DIRECTIONS FOR FOGGING FOR USE IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS: Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a solution containing 4.8 ounces of product to 1 gallon of water (1,200 ppm) (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be sanitized with an EPA approved food contact sanitizer solution of 200 ppm active quaternary prior to use. ~~All food contact surfaces must be thoroughly rinsed prior to reuse with potable water. (*2)~~

Note: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

DISINFECTING POTATO STORAGE AREA AND EQUIPMENT: Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in

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that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse. (*2)

ANIMAL PREMISES

ANIMAL PREMISE VIRUCIDAL PERFORMANCE: At 3 ounces per gallon use level (750 ppm active quat), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective on hard, non-porous environmental surfaces against the following viruses: (*2)

Avian Influenza A (H3N2) (New) (*3)
Canine Adenovirus (*1)
Canine Coronavirus (*1)
Canine Distemper Virus (New) (*3)
Canine Parainfluenza Virus (*1)
Feline Calicivirus (*1)
Feline Infectious Peritonitis (*1)
Feline leukemia (*1)
Feline Panleukopenia (*1)
Feline Picornavirus (*1)
Feline Rhinotracheitis (*1)
Infectious Canine Hepatitis Virus (*1)
Murine Parainfluenza virus type 1 (*1)
Newcastle disease virus (*1)
Pseudorabies virus (*1)
Rabies (*1)
Vaccinia virus (*3)

At 9 ounces per gallon use level, this product is found to be effective against the following viruses on hard, non-porous environmental surfaces in the presence of 5% serum with a 10-minute contact time: (*1)

Canine Parvovirus (CPV) (*1)
Minute virus of Mice (Parvovirus) (*1)
Porcine Parvovirus (*1)

EFFECTIVENESS AGAINST CANINE PARVOVIRUS (CPV), MINUTE VIRUS OF MICE (PARVOVIRUS) AND PORCINE PARVOVIRUS (*1): At 9 ounces per gallon of water or equivalent use dilution this product was found to be effective against Canine Parvo Virus (CPV), Minute virus of Mice (Parvovirus) and Porcine Parvovirus on hard, non-porous environmental surfaces in the presence of 5% serum with a 10 minute contact time. Prior to use, remove all animals, and their feeds from premises, vehicles (trucks and cars) and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

(OR)

FOR CANINE PARVOVIRUS ACTIVITY: This product is effective against Canine Parvovirus at 9 oz. per gallon. Follow "Veterinary Clinics/Animal Life Science Laboratory/Animal Care Facilities/Animal Research Centers/Animal Quarantine

Areas/Zoos/Pet Shop/Kennels/Animal Breeding Facilities/Breeding and Grooming Establishments/Tack Shops Disinfection Directions".

SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING AREAS WHICH MAY BE INFESTED WITH HANTAVIRUS (*1)

Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup wear coveralls, (disposable, if possible), rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter or a powered air-purifying respirator (PAPR) with HEPA filter.

All potential infective waste material (including respirator filter) from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious (if it is to be transported) and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust may be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed or garage:

- Air out the building for at least 30 minutes by opening windows and doors.
- Leave the building while it is airing out.
- Do not vacuum, sweep or dust. This can spread the virus through the air.
- Thoroughly wet the contaminated areas with a solution of 3 ounces of product per gallon of water and allow to stand undisturbed for 10 minutes.
- Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- Treat the surface again following the label directions and allow to stand undisturbed for 10 minutes.

VETERINARY CLINICS/ANIMAL LIFE SCIENCE LABORATORY/ANIMAL CARE FACILITIES/ANIMAL RESEARCH CENTERS/ANIMAL LABORATORY/ANIMAL QUARANTINE AREAS/ZOOS/PET SHOP/KENNELS/ANIMAL HUSBANDRY/ANIMAL BREEDING FACILITIES/BREEDING AND GROOMING ESTABLISHMENTS/TACK SHOPS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard, non-porous surfaces: equipment, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from premises, animal transportation vehicles, crates etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 3 ounces per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus) and Porcine Parvovirus) (or equivalent use dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers and other equipment that dispenses food or water with soap or detergent, and rinse with potable water before reuse. (*1)

RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS

Remove or cover all food and packaging materials. Remove all gross soils. Disinfect walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Saturate all surfaces with a solution of 3 ounces of this product per gallon of water (or equivalent use dilution) (750 ppm active quat). Scrub to loosen all soils. Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. (*1)

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TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION

(*2): Animals frequently defecate on hot rocks and other hard non-porous cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items. (Use on rocks not allowed in California.)

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal solution (3 ounces per gallon of water or equivalent use dilution) (750 ppm active quat) for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

Note: Substrates for desert terrariums (i.e. gravel) must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists. Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately.

REPTILE TANK CLEANING AND DISINFECTION DIRECTIONS (*2): Remove all reptiles from the enclosure (tank) prior to cleaning and disinfecting. Remove all litter or droppings from surfaces. Empty all equipment used for feeding or watering reptiles. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply the disinfecting and virucidal solution (3 oz. per gallon of water) (or equivalent use dilution) to the surfaces of the enclosure (tank) until thoroughly wet. Allow surfaces to remain wet for 10 minutes. Wipe dry. Rinse all surfaces that come in contact with food with potable water before reuse. Allow the enclosure (tank) to ventilate for a minimum of 10-15 minutes before replacing the reptiles.

Note: Do not apply this product directly onto the reptile. If this product comes into contact with the reptile's skin, then immediately wash the material off of the animal with lukewarm water. If the reptile ingests this product, contact your veterinarian immediately.

VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS (*2): Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles and other environmental surfaces may be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or virucidal solution (3 oz. per gallon of water) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried.

Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

FARM PREMISE DISINFECTION DIRECTIONS

FARM PREMISE DISINFECTION DIRECTIONS (*2): Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or virucidal solution (3 oz. per gallon of water) and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse. For effectiveness against Porcine Parvovirus, use this product at 9 ozs. per gallon of water. (*Note to reviewer: Only one use dilution will be used in this section.*)

(OR)

FOR USE IN EQUINE, DAIRY AND HOG FARMS: (*1)

1. Remove all animals and feed from premises, vehicles and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barn, pens, chutes and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with 3 ounces of this product per gallon of water for a period of 10 minutes. For effectiveness against Porcine Parvovirus, use this product at 9 ounces per gallon of water. (*Note to reviewer: Only one use dilution will be used in this section.*)
6. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure.
7. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set and dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

DISINFECTION/FUNGICIDE/VIRUCIDE OF POULTRY/TURKEY EQUIPMENT, SWINE QUARTERS, LIVESTOCK FARMS, EQUINE QUARTERS, ANIMAL QUARTERS AND KENNELS DIRECTIONS (*1):

Prior to use, remove all poultry, other animals and their feeds from premises, vehicles (trucks and cars), and enclosures (coops, crates, kennels, stables). Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, cages, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry and other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 3 ounces of this product per gallon of water (9 ounces for Canine Parvo Virus, Minute virus of Mice (Parvovirus) and Porcine Parvovirus) (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, leashes, chains and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

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After application, ventilate buildings, pens, coops and other closed spaces. Do not house poultry, or other animals or employ equipment until treatment has been absorbed, set or dried.

All treated equipment that will contact feed or drinking water (racks, troughs, automatic feeders, fountains and waterers) must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

POULTRY (AND SWINE) PREMISE SANITATION SITE PREPARATION (*2)

Site Preparation: The first step in any on-going sanitation program must be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly clean all surfaces with soap or detergent and rinse with water.

HATCHERIES: Use 3 ounces of this product per gallon of water. Apply to hatchers, setters, trays, racks, carts, sexing tables, delivery trucks and other hard, non-porous surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more, rinse with potable water before reuse and allow to air dry. (*1)

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Use 3 ounces of this product per gallon of water. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry. (*1)

DISINFECTANT DIRECTIONS FOR CHICK VANS, EGG TRUCKS HATCHERY and FARM VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. Use the Virucidal rate to treat all vehicles (3 oz. per gallon of water) (or equivalent use dilution). Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. For sprayer applications, use a coarse spray device. (*2)

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES OF AUTOMATED TRAY, RACK AND BUGGY WASHERS: Mix a solution containing 3 oz. per gallon of water (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Treat hard non-porous, non-food contact surfaces of automated trays, racks and buggy washers into solution for 10 minutes. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty. (*2)

DISINFECTANT/VIRUCIDAL* DIRECTIONS TO TREAT HARD NON-POROUS, NON-FOOD CONTACT SURFACES IN EGG RECEIVING AND EGG HOLDING AREAS: Mix a solution containing 3 oz. per gallon of water (or equivalent use dilution). Remove all litter and manure from surfaces to be treated. Saturate hard non-porous, non-food surfaces with the solution for a period of 10 minutes. Apply by mop, brush or sprayer. Thoroughly clean all surfaces with soap or detergent and rinse with water before reuse. Change the disinfecting solution at least daily or when solution appears dirty. (*Note to reviewer: Only one use dilution will be used in this section.*) (*2)

MEAT PACKING PLANTS: Use this product to disinfect hard, non-porous surfaces associated with the following sites: livestock vehicles and holding pens, receiving areas and delivery chutes, slaughter areas and conveyors, hand, rub and guide rails, post knock cabinets, stands and flooring surfaces; chains and moving process lines, surfaces of equipment for hide operations consisting of brine curing, hide transfer bin surfaces, chutes, conveyors, tallow and animal feed production hard, non-porous surfaces, processed products and offal equipment surfaces, fabrication and processing

areas covering cold storage areas, all stainless steel cut out and prep tables, counter tops, conveyors, chains, tables, floors, walls and all stainless surfaces. For application, saturate all surfaces with 3 oz. of this product per gallon of water (750 ppm active quat) (or equivalent use dilution) and scrub to loosen all soils. Surfaces must remain wet for 10 minutes. Then thoroughly rinse all surfaces with potable water before operations are resumed. (*2)

All treated equipment that will contact animal feed or food surfaces must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

HIDE/LEATHER PROCESSING PLANTS (*2): To use as a disinfectant/fungicide on hard, non-porous surfaces, add 3 ounces to gallon of water (750 ppm active quat) (or equivalent use dilution). This product can be used on hide storage bins, holding tanks, chill tanks, serpentine tanks and chains, machine and tannery equipment surfaces, conveyors and trolleys, hide press, grading and storage areas and scales, etc. Preclean all surfaces prior to use to remove gross soils. Thoroughly wet all hard, non-porous surfaces by evenly applying the use solution. Apply use solution with a cloth, mop, sponge, sprayer or by immersion, thoroughly wetting surfaces. For sprayer applications, use a coarse spray device at 6-8" from surfaces. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Wipe dry or allow to air dry.

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A (*2): Remove all poultry and feeds from premises, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with 3 oz of this product per gallon of water (750 ppm active quat) (or equivalent use dilution) for a period of 10 minutes. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

RESTROOM/BATHROOM

NON-ACID TOILET BOWL (and URINAL) DISINFECTANT /CLEANER DIRECTIONS
Remove gross filth prior to disinfection. (*1)

FROM CONCENTRATE: Preclean surface. Add 2 ounces to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow solution to stand for 10 minutes and flush. (*1)

*(Or use alternate Concentrate Use directions) (*2)*

FOR USE AS A NON-ACID BOWL CLEANER/DISINFECTANT IN TOILET BOWLS FROM CONCENTRATE:

1. Preclean surface.
2. Add 2 ounces into toilet bowl (or equivalent use dilution).
3. Swab entire surface area especially under the rim.
4. Repeat and allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

FROM USE-SOLUTION: Preclean surface. Empty toilet bowl and apply 2 ounces per gallon or equivalent use dilution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer; brush or swab thoroughly and allow to stand for 10 minutes and flush. For spray application use a coarse spray device. (*1)

(Or use alternate Use-Dilution directions)

FOR USE AS A NON-ACID BOWL CLEANER/DISINFECTANT IN TOILET BOWLS (AND URINALS) FROM USE-DILUTION: (*1)

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1. Pre-clean heavily soiled areas.
2. Empty bowl by forcing water through the trap. Apply Use Solution (2 ounces per 128 ounces of water) to exposed surfaces in toilet bowls and urinals.
3. Swab entire surface area especially under the rim.
4. Allow entire surface to remain wet for ten (10) minutes.
5. Flush toilet and rinse swab applicator thoroughly.

(Or use alternate Use-Dilution directions)

TOILET BOWLS/URINALS: Swab bowl with brush to remove heavy soil prior to cleaning or disinfecting. Clean by applying use-solution around the bowl and up under the rim. Stubborn stains may require brushing. To disinfect, first preclean to remove heavy soil, then remove or expel over the inner trap the residual bowl water. Pour in 3 oz. of the use dilution. Swab the bowl completely using a scrub brush or mop, making sure to get under rim. Let stand for 10 minutes or overnight, then flush. (*1)

(Or)

To disinfect toilet bowls, flush toilet, add 2 oz. detergent/disinfectant directly to the bowl water. Swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush. (*2)

(Or)

GENERAL CLEANING TOILET BOWL: Apply (Open cap) (Squeeze gently, directing) 2 ounces of bowl cleaner under the rim and on sides of bowl (inside only). Brush and clean surfaces, then flush toilet. (Close cap). Rinse brush with clean water. Do not use on any other surfaces including toilet seat, toilet lid, countertops, tubs and sinks. Rinse surfaces thoroughly. (*2)

(Or)

TO CLEAN AND DISINFECT: A preliminary cleaning is required for the removal of heavy soil prior to disinfection. Fill toilet bowl with clean water. Press swab mop against bowl to remove excess water then saturate mop with 2 ounces of this product while holding bottle and mop applicator over bowl. Swab bowl completely making sure to get under the rim. Let stand for 10 minutes then flush. Rinse applicator completely. (*2)

(Or)

TO DISINFECT TOILET BOWLS: Flush toilet, add 2 ounces of detergent/disinfectant solution directly to the bowl water, swab the bowl completely using a scrub brush or toilet mop, making sure to get under the rim. Let stand for 10 minutes and flush. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

(OR)

TO DISINFECT TOILET BOWLS: Fill toilet bowl with clean water. Apply (Squeeze) 2 ounces of bowl cleaner onto bowl brush. Clean the entire unit especially under the rim at water outlets. Allow surface to remain wet 10 minutes. Flush and rinse out bowl brush with clean water. A preliminary cleaning step is required for the removal of heavy soil prior to disinfection. (*2)

(Or)

TO DISINFECT TOILET BOWLS: Flush to remove heavy soil. To clean, simply squirt 2 ounces of this product under the rim and around sides. Allow it to stand several minutes then scrub entire surface (especially under the rim) with a bowl (toilet) mop. Flush and rinse. To disinfect, squirt at least two ounces of this product under the rim and around sides. Scrub bowl with mop. Allow solution to remain in the bowl for 10 minutes after scrubbing. Flush and rinse. (*2)

(Or)

TO DISINFECT TOILET BOWLS: (*2)

1. Remove gross filth and heavy soil deposits.
2. Press swab applicator against side of bowl to remove excess water.

3. Apply 2 ounces of this product to swab applicator, cloth, mop, sponge, or directly to surface.
4. Swab entire surface area, especially under the rim.
5. Allow entire surface to remain wet for ten (10) minutes.
6. Flush toilet and rinse swab applicator thoroughly.

(Or)

TOILET BOWL (AND URINAL) DISINFECTION/CLEANER DIRECTIONS: Remove gross filth prior to disinfection. Empty toilet bowl or urinal and apply solution of 2 ounces of this product per 128 ounces of water to exposed surfaces including under the rim, with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow to stand for 10 minutes and flush. (*2)

(Or)

TO CLEAN AND DISINFECT URINALS: Flush to remove heavy soil. Remove screens and strainers. Then squirt a solution of 2 ounces of this product per 128 ounces of water around edges and top. Allow solution to flow down over surfaces. Allow it to stand several minutes before scrubbing, then flush and rinse. To disinfect, allow solution to remain in urinal at least 10 minutes after scrubbing. (*2)

(Or)

TO DISINFECT URINAL: (*2)

1. Remove gross filth and heavy soil deposits.
2. Apply solution of 2 ounces of this product per 128 ounces of water directly to urinal surfaces including water outlets area for general cleaning.
3. Then pour additional solution on applicator.
4. Clean entire unit, especially under rim at water outlets, with applicator.
5. Remove screen-trap to deodorize drain and apply ¼ ounce directly on edge and into drain.
6. Wait 10 minutes, flush and rinse applicator.

FOR HEAVY DUTY CLEANING (*2): Preclean surface. Empty toilet bowl or urinal and apply 3 ounces per gallon of water use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush.

TO DISINFECT TUBS, SHOWER STALLS, SINKS, FAUCETS (*2): Swab area and remove gross filth and heavy soil. Apply 3 ounces of (product name) per gallon of water (750 ppm active quat) (or equivalent use dilution) onto surface to be cleaned or apply with cloth or sponge to wet all surfaces thoroughly and allow surface to remain wet for at least 10 minutes. Wipe around with damp cloth or sponge. Do not allow solution to dry on surface. Rinse thoroughly with water.

FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE OPEN AREAS WITH FLOOR DRAINS: (*2)

1. Pre-clean heavily soiled areas.
2. Apply Use Solution of 3 ounces per gallon of water (750 ppm quat active) (or equivalent use dilution) to floors, walls and ceilings making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes.

Special instructions for foam guns: Pour concentrate into foam gun bottle and attach to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun instructions for more information. Make sure setting is set for 1:48 dilution. Once in place, squeeze the handle to dispense foam solution. To disinfect, all surfaces must remain wet for ten (10) minutes. (Foam gun directions not for use in California.)

3. Scrub using deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

RV HOLDING TANKS/RECREATIONAL VEHICLES: For toilet waste and holding tanks, cover bottom of holding tank with water and 3 to 9 ounces per gallon of water to deodorize. If odors return before time to empty, add 3 to 9 ounces to the tank. For kitchen waste, add 3 to 9 ounces to gray water tank as needed to control malodors created by dirty dishwasher. (*2)

BARBER/SALON

DISINFECTION/FUNGICIDE/VIRUCIDE FOR BARBER/SALON TOOLS DIRECTIONS (*2): Immerse pre-cleaned barber/salon tools, such as combs, brushes, plastic rollers, razors, clipper and trimmer blades, tweezers, manicure/pedicure tools and scissors in a 3 ounces per gallon solution of the product (or equivalent use dilution) (750 ppm active quat). Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes cloudy or soiled.

(OR)

DISINFECTING/VIRUCIDE GROOMING CLIPPERS: Turn the clipper off occasionally during use and spray between the teeth of blades a solution of 3 ounces per gallon (or equivalent use dilution) (750 ppm active quat). Allow surface to remain wet for at least 10 minutes. Remove hair, dandruff and dust particles while disinfecting the blades. (*2)

CLEANING HAIR CLIPPERS AND ELECTRIC SHEARS (*2): While clipper/shear is running, hold in the downward position and spray a 2-ounce per gallon of water solution (or equivalent use dilution) (500 ppm active quat) of this product directly onto the blades two or three times to thoroughly wet the blades. Do not spray on the clipper case or drip into clipper housing. Turn off clipper/shear. Allow surface to remain wet for at least 10 minutes. Then wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions.

(OR)

CLEANING BARBER/SALON SHEARS AND OTHER IMPLEMENTS (*2): Spray shear/implement until thoroughly wet. Wipe away visible debris using a soft bristle brush or cloth. Immerse precleaned shear/implement into a container of 2-ounce per gallon of water solution (or equivalent use dilution) (500 ppm active quat) of this product for at least 10 minutes. Remove shear/implement and wipe dry. No rinsing is necessary. Use fresh solution at least daily or when immersion tank (bowl) (sink) solution becomes diluted or visibly soiled.

(OR)

FOR USE TO CLEAN AND DISINFECT BARBER AND BEAUTY/MANICURE INSTRUMENTS AND TOOLS: (*2)

1. Pre-clean heavily soiled items.
2. Completely immerse pre-cleaned combs, scissors, clipper blades, plastic rollers, razors, manicure implements and other non-porous instruments in the use solution (3 ounces per gallon) (or equivalent use dilution) (750 ppm active quat) so that surfaces remain wet for ten (10) minutes.
3. Rinse surfaces thoroughly and let air dry before reuse.
4. Change solution at least daily or sooner if visibly dirty.

Note: Plastic instruments can remain immersed until ready to use. Stainless steel shears and metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments. *(Note to reviewer: This paragraph will follow any direction chosen from the above selection in this section.)*

DISINFECTION/FUNGICIDE/VIRUCIDE OF HARD, NON-POROUS SURFACES IN FOOTBATHS (*2): To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and

thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of 3 ounces per gallon of water (or equivalent use dilution) (750 ppm active quat) to exposed surfaces with a cloth, mop, sponge or sprayer. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

FUNGICIDAL/DEODORIZATION

FUNGICIDAL PERFORMANCE (*2): At 3 ounces per gallon use level (or equivalent use dilution) (750 ppm active quat) this product is effective against Trichophyton mentagrophytes (athlete's foot fungus) (a cause of Ringworm) (a cause of Ringworm of the foot). on inanimate surfaces in the presence of 5% blood serum in locker rooms, dressing rooms, shower and bath areas and exercise facilities. Saturate surfaces with use solution for a period of 10 minutes. Allow solution to dry on surface and repeat treatment every seven days or when new growth appears.

MILDEWSTAT: To control mold and mildew on pre-cleaned, hard non-porous surfaces (such as floors, walls, table tops), add 2 ounces of this product per 1 gallon of water. Apply solution with a cloth, mop or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth reappears.

MOLD AND MILDEWSTAT: This product prevents and controls mold and mildew and the odors they cause on hard non-porous inanimate surfaces at 2 ounces per gallon dilution.

GENERAL DEODORIZATION: To deodorize, add 2 ounces of this product per gallon of water (or equivalent use dilution) (500 ppm active quat). Excess material must be wiped up or allowed to air dry. (*1)

FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT: It is especially important to preclean for the product to perform properly. Then, apply a wetting concentration of 10 ounces of this product per gallon of water (or equivalent use dilution) (2,500 ppm quat active). Treated surfaces must remain wet for 10 minutes. (*2)

FOR DEODORIZING SEPTIC STORAGE TANKS: When tanks are empty, pour 2 oz. per gallon of water (500 ppm) (or equivalent use dilution) into septic storage tank on ~~mobile homes~~, campers and boats to control the bacteria that can cause odors. As tank fills with sewage and the vehicle is moving, this ~~disinfectant~~ solution will mix and provide an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal. (*2)

AIR FRESHENER/AUTOMOTIVE USES: The use of a solution of 2 ounces of this product per gallon of water will effectively neutralize damp musty odors caused by mildew in ~~storage areas, basements, closets, bathrooms and A/C filters~~. Effective on smoking and cooking odors (garlic, fish, onions, etc.), automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow surface to air dry. (*2)

FOR ODORS CAUSED BY DOGS, CATS AND OTHER DOMESTIC ANIMALS: Use on rugs, floors, walls, tile, cages, crates, litter boxes, mats, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then

follow directions for "General Deodorization". Treated surfaces must remain wet for 10 minutes. (*1)

TO CONTROL THE GROWTH OF MOLD AND MILDEW ON LARGE INFLATABLE NON-POROUS PLASTIC AND RUBBER STRUCTURES (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 ounces per gallon (500 ppm active quat) of water (or equivalent use dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried. (*2)

FOR DISINFECTION AND TO CONTROL THE GROWTH OF MOLD AND MILDEW ON NON-POROUS ATHLETIC EQUIPMENT (wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 3 ounces per gallon (750 ppm active quat) of water (or equivalent use dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried. (*2)

HUMIDIFIER DIRECTIONS: Thoroughly clean water tank and filters. Add 2 ounces of this product per gallon of refill water. (*2)

OR

HUMIDIFIER BACTERIA/ALGAE TREATMENT (*2): Formulated for use in portable humidifiers. Thoroughly clean water tank and filters before each heating season, or sooner if necessary. For every gallon of water in the humidifier tank add 2 ounces of this product. When you refill the tank, add 2 ounces of this product for every gallon of water added.

Not for use in heat or atomizing type humidifiers.

WATER and SMOKE DAMAGE RESTORATION (Not applicable in CA)

Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation. (*2)

SEWER BACKUP & RIVER FLOODING: During mitigation procedures, dilute 3-6.25 ounces of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip before and after cleaning and extraction. (Not applicable in CA) (*2)

CARPETS, CARPET CUSHIONS AND OTHER POROUS MATERIALS SUCH AS SUB FLOORS, DRYWALL, TRIM AND FRAME LUMBER, TACKLESS STRIP AND PANELING: For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 3-6.25 ounces of the product per gallon of water (750-1531 ppm active quat) allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly. (*2)

SPECIAL INSTRUCTIONS FOR CLEANING CARPET AGAINST ODOR CAUSING BACTERIA: This product can be used in industrial and institutional areas such as homes, motels & hotel chains, nursing homes, schools and hospital(s). For use on wet

cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness. (*2)

FOR PORTABLE EXTRACTION UNITS: Mix 3 ounces of this product per gallon of water.

FOR TRUCK MOUNTED EXTRACTION MACHINES: Mix 6.25 ounces of this product per gallon of water and meter at 4 gallons per hour.

FOR ROTARY FLOOR MACHINES: Mix 6.25 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

CARPET DEODORIZATION AGAINST ODOR-CAUSING BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE (*2)

This product cleans and deodorizes the carpet by controlling/reducing the growth of odor-causing bacteria. It can be used in industrial and institutional areas such as homes, motels, hotel chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 3 ounces of product per gallon of water. Follow the injection and/or extraction procedures as specified for any conventional steam-cleaning equipment you are using. For rotary floor machines, mix 6.25 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use (Use this product) on washable synthetic fibers. Do not use on wool. Test color fastness of carpet before use. Apply diluted product to a small, concealed spot, then rub with a clean white cloth. If color changes or transfers to (the) cloth, a water-based product must not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

Note: This product must not be mixed with other cleaning products.

SMOKE DAMAGE RESTORATION (Not for use in CA) (*2): Effective against odor causing bacteria and fungi for home, institutional, industrial and hospital use. This product is particularly suitable for use in smoke damage restoration situations against odor causing bacteria on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim and frame lumber, tackless strip and paneling. Follow directions as outlined in the Water Damage Restoration section. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

OTHER

WATERBED CONDITIONER: When used as a waterbed conditioner, controls the growth of odor-causing and slime-forming bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals. (*2)

If bed has not been treated properly, drain bed completely. Add 15 gallons of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

Dosage: To control growth of odor-causing and slime-forming bacteria, add 12.875 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 25.75 fluid ounces in a

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waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:

To cleanse away skin secretions and accompanying malodor, and to insure the removal of all soil and bloodstains, apply 2 ounces of this product to gallon of water (500 ppm active) (or equivalent use dilution) to the surfaces and body openings, natural or artificial. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10 minute contact time for optimal results. Prepare a fresh solution for application of each remains. (*2)

COMMERCIAL FLORIST USE DIRECTIONS (*2): To clean, disinfect and deodorize hard, non-porous surfaces in one step, prepare use solution by adding (mixing) 2 ounces per gallon of water (500 ppm active) (or equivalent use dilution). For heavy-duty use, add (mix) 7.5 ounces per gallon of water (1,875 ppm active) (or equivalent use dilution).

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as required, with a cloth, mop, brush, sponge or sprayer.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse (mist) pump or trigger sprayer. Spray 6-8 inches from surface. Rub with brush, sponge or cloth. Do not breathe spray.

Treated surfaces must remain wet for 10 minutes. Allow to air dry

Prepare a fresh solution at least daily or sooner if use solution becomes visibly dirty.

FOR USE ON FINISHED FLOORS: To limit gloss reduction, use 2 ounces of this product per gallon of water. Apply with a damp mop or auto scrubber. Apply with a damp mop or auto scrubber. Allow to air dry. (*2)

~~**ARTIFICIAL TURF SURFACES:** This product can be used as a disinfectant on indoor and outdoor artificial turf surfaces such as athletic game fields and practice fields (i.e. football, soccer, baseball, lacrosse, golf). Prepare a 2 oz of this product per gallon of water solution (500 ppm active quat) (or equivalent use dilution). Apply to turf surfaces with a portable tank sprayer or handheld pressure sprayer. Saturate turf surface with enough product to remain wet for at least 10 minutes. Do not use field for a minimum of 30 minutes or when surface has completely dried. One (1) gallon of diluted product will treat 400-600 sq ft of turf surface. (*2)~~

DIRECTIONS FOR HOUSEHOLD USE (*2)

KITCHEN/BATHROOM/HOUSEHOLD CLEANING (*2): Apply 2 oz per gallon of water (500 ppm active) (or equivalent use dilution) solution with a cloth, sponge, mop or directly on surface with a mechanical spray. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

DISINFECT/DEODORIZE (*2): To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, exterior surfaces of appliances, refrigerators or freezers, microwave exteriors, stove tops and hoods, tables, garbage pails and faucets apply 2 oz per gallon of water (500 ppm active) (or equivalent use dilution) with cloth, sponge, mop or mechanical spray. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. The pre-clean step must be done

according to the instructions under Restroom/Bathroom. Rinse with potable water after use on surfaces that come in contact with food.

DIRECTIONS FOR ALTERNATE CONTAINERS

BAG-IN BOX CONTAINERS

How to use this package: This package is designed to be used with dilution control systems only. Open package and connect to dispense according to directions on the box.

TRIGGER SPRAYERS: Fill bottle from dispenser. Apply to surfaces according to directions above.

MOP BUCKETS: Fill bucket from dispenser. Set up "Wet Floor" signs. Mop floor surfaces as specified in directions above.

PACKETS (For pre-measured tear open packets) (*2)

(Note: For Hospital/Animal Premise Disinfection packet only): (Simply) (Tear) open and pour contents into 1 gallon of water. Keep packets in box until ready to use.

(Note: For General Disinfection packet only): Pour contents of (2 oz) packet into 1 gallon of water. Keep packets in box until ready to use.

REFILLS (*2)

To Refill Concentrate From Large Containers Into Smaller Containers: This product can be used to fill and refill clean, properly labeled containers for dilution elsewhere within your facility. Make sure the small container has been cleaned, dried and properly labeled according to state and local regulations. Also make sure other items (funnels or hand pumps) are properly cleaned and dried. To refill, simply pour (or pump product) from the larger container directly into the smaller one being careful not to spill any product. Keep both containers sealed when not in use.

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**3 OUNCE PACKET LABEL TO BE USED WITH MASTER
CONTAINER LABEL**

MIX EACH PACKET WITH 1 GALLON OF WATER
FOR HOSPITAL AND ANIMAL PREMISE DISINFECTION ONLY

MAQUAT[®] 42

E.P.A. Reg. No. 10324-57 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 3 FLUID OZ.

ACTIVE INGREDIENTS:

Alkyl (C₁₄ 60%, C₁₆ 30%, C₁₂ 5%, C₁₈ 5%)
dimethyl benzyl ammonium chloride..... 1.60%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride 1.60%

INERT INGREDIENTS: 96.80%
TOTAL 100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE OUTER CONTAINER FOR PRECAUTIONARY STATEMENTS AND USE
DIRECTIONS

DISPOSAL: Do not reuse container. Wrap and put in trash collection.

MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"



721 W. Algonquin Road
Arlington Heights, IL 60005

847-290-1621

Toll Free:
1-800-362-1855

**2 OUNCE PACKET LABEL TO BE USED WITH MASTER
CONTAINER LABEL**

MIX EACH PACKET WITH 1 GALLON OF WATER
FOR GENERAL DISINFECTION

MAQUAT[®] 42

E.P.A. Reg. No. 10324-57 E.P.A. Est. No. 10324-IL-1

NET CONTENTS: 2 FLUID OZ.

ACTIVE INGREDIENTS:

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dimethyl benzyl ammonium chloride..... 1.60%
Alkyl (C₁₂ 68%, C₁₄ 32%)
dimethyl ethylbenzyl ammonium chloride..... 1.60%

INERT INGREDIENTS: 96.80%
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